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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,752	04/09/2004	Shuho Motomura	Q81015	8798
65565 SUGHRUE-265	7590 04/23/2007 5550		EXAMINER	
2100 PENNSY	LVANIA AVE. NW		BAREFORD, KATHERINE A	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			1762	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/820,752	MOTOMURA, SHUHO			
Office Action Summary	Examiner	Art Unit			
	Katherine A. Bareford	1762			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 1) Responsive to communication(s) filed on 19 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final.				
Disposition of Claims	•				
4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 9-13 and 15-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Claim(s) is/are objected to by the Examine 10) The specification is objected to by the Examine are subjected to be subjected to by the Examine are subjected to by	vn from consideration. r election requirement. • d. r. epted or b) □ objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 19, 2007 has been entered.

The amendment filed with the RCE submission of March 19, 2007 has been received and entered. With the amendment, claims 1-8 and 14 have been canceled, and claims 9-13 and \$15-26 (including new claims 22-26) are pending for examination.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 9-13 and 15-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 9, lines 16-17, "when attaching and detaching the substrate to and from the holding means, the holding means turns by a predetermined angle to make the substrate held in an inclined state" is confusing as to if this is always required in the process. As described in the specification, the initial attachment of the substrate is in an inclined state, then the holding means is flat when the substrate is "detached" to transfer to the chucking means and flat when the substrate is "attached" to transfer back from the chucking means after coating (see claim 10, for example) and then is inclined when the substrate is then detached from the holding means after that process.

Therefore, the inclination during attaching and detaching is not always required. The Examiner notes that the claim also does not require that the substrate be transferred back to the holding means from the chucking means after coating as worded.

Claim 17, lines 17-19, the same issues as with claim 9, lines 16-17 as discussed immediately above arise.

Claim 22, line 2, "substrate individually inclined angle" is confusing as worded.

Did applicant mean "substrate individually in an inclined angle" as in claim 23?

Claims 22-23, the same issues as with claim 9, lines 16-17 as discussed above arise.

Claim 24, lines 6-8, "holding means for holding the substrate so that the surface to be coated by the coating liquid faces downwards; said holding means having a

chucking means for receiving the substrate from the holding means. . ." is confusing as worded, because since the chucking means receives the substrate from the

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holding means, it is unclear how the chucking means can actually be part of the holding means. Rather, they are described as two separate things (also see the last two lines of the claim), and for the purpose of examination the Examiner has treated them as being two separate means.

Claim 24, lines 14-16, the same issues as with claim 9, lines 16-17 as discussed above arise.

Claim 24, last line, "a turning means" is unclear as to whether it should be "said turning means" as "a turning means" is already referred to at line 14 or whether a second turning means is referred to.

Claim 26, the same issues as with claim 9, lines 16-17 as discussed above arise.

The other dependent claims do not cure the defects of the claims from which they depend.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 9-13, 15-17 and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura (US 2003/0064159) in view of Motoda et al (US 6010570), Mendiola et al (US 6254682) and Japan 09-241843 (hereinafter '843).

Claims 9, 17 and 24: Motomura teaches a coating method and apparatus for forming a coating film on a surface of a substrate. Figure 1 and paragraph [0002]. Coating liquid is raised by a capillary phenomenon in a nozzle and brought into contact with the surface. Paragraphs [0087] – [0097]. The coating liquid is coated on the surface by the relative movement (provided by a moving means) of the nozzle and substrate. Paragraph [0097]. The substrate is attached to a chucking means such that the surface to be coated is facing downwards and the chucking means is attached to the backside of the substrate. Paragraphs [0056] and [0087] (absorption board 19). The coating film is formed on the surface to be coated by moving at least one of the nozzle and the chucking means in a horizontal direction. Paragraph [0097].

Claim 10: after forming the substrate is released from the chucking means onto a holder. Figure 12 and paragraph [0102].

Claim 11: the chucking is carried out be vacuum means. Paragraphs [0056] — [0062] and [0087].

Claim 12: during the forming of the coating film on the surface, a distance between the nozzle and the surface is controlled so that the film thickness is uniform. Paragraph [0095].

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Claim 13: before the forming the nozzle is lifted so that the coating liquid is brought into contact with the surface, and the nozzle is descended an amount to determine a coating thickness. Paragraph [0096].

Claim 15, 17, 25: the coating film is a photoresist. Paragraph [0080].

Claim 16, 17: the substrate comprises a photo mask blank. Paragraph [0088].

Motomura teaches all the features of these claims except for (1) the attachment of the chucking means to the substrate using the holding means as claimed, (2) the release of the substrate such that the coated surface of the substrate faces downward (claim 10), and (3) the holding means with the predetermined angle for receiving the substrate in an inclined state, the holding means separation from the substrate and turning means for the holding means as claimed.

However, Motoda teaches a coating method of forming a coating film on a surface of a substrate. Figures 3-4 and column 4, lines 1-20. Coating liquid is raised through a slit nozzle and brought into contact with the surface. Figures 3-4 and column 4, line 35 through column 5, lines 30. The coating liquid is coated on the surface by the relative movement of the nozzle and substrate. Figures 3-4 and column 6, line 55 through column 7, line 5. The substrate is attached to a chucking means such that the surface to be coated is facing downwards and the chucking means is attached to the backside of the substrate. Figures 3-4 and column 4, line 5-25 (chuck plate 10). The coating film is formed on the surface to be coated by moving at least one of the nozzle and the chucking means in a horizontal direction. Figures 3-4 and column 6, line 55

through column 7, line 5. The chucking is carried out by vacuum means. Column 4, lines 20-25. During the forming of the coating film on the surface, a distance between the nozzle and the surface is controlled so that the film thickness is uniform. Column 5, lines 1-10. The coating film can be a photoresist. Column 1, lines 5-10. Motoda teaches to perform the coating as part of an apparatus with a loader section, preliminary processing sections and a resist coating/developing section for the coating process with the slit nozzle. Column 9, line 60 through column 10, line 40 (all part of the "first processing section" see resist coating device 107). The loader section includes cassettes housing untreated substrates and transfer pincers that take the untreated substrates out of the cassettes to transfer into the first processing section and pincers that take treated substrates and transfer into cassettes for holding treated substrates. Column 10, lines 10-25. A main arm is also provided to transfer the substrates between adjacent member devices. Column 10, lines 20-35.

Mendiola teaches treating plate like material that is carried in cassettes for treatment. Column 3, lines 35-45. Mendiola teaches that this device allows inversion of plate like materials in bulk, for treatments like meniscus coating techniques that require the substrate to be inverted. Column 3, line 60 through column 4, line 5. For example, the plate like material in can be inverted, and then the substrate removed from the cassette and the first surface processed from beneath the plate like material using a meniscus coating applicator or any other bottom surface treatment technique, and then the plate like material is returned to the cassette. Column 7, line 65 through column 8,

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line 20. Then the cassette inverter apparatus is rotated 180 degrees and the cassette is returned to its original position. Column 7, lines 10-20.

'843 provides that it is known to carry wafer substrates for treatment in grooves of cassette type holders (holding boats). Abstract and figure 1. Furthermore, it is known to provide the grooves in an inclined state so that the wafers are correspondingly inclined for easy placement and removal of wafers. Abstract and figure 1.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura to provide the attachment of the substrate using a holding means as claimed as suggested by Motoda and Mendiola in order to provide a desirable and efficient coating method, because Motomura teaches a method of coating using a vacuum chuck to hold plate like materials with the coating face facing downwards so that the substrate can be coated with a capillary coating method, and Motoda teaches that when coating with a substrate held by a vacuum chuck to allow coating of the downward facing surface it is desirable to store the substrates in cassettes and then remove them with a holding device (such as arms, pincers) and transfer them to the coating sections and Mendiola teaches that when coating with a substrate held so as to allow downward facing of the substrate, it is desirable to have the substrates placed in bulk in a cassette and inverted to the correct downwards facing position before transfer to the coating device. This would provide that the substrate would be provided from a cassette to a holding means in the desired downwards facing direction

and the holding means and the chucking means would necessarily be brought towards each other by moving at least one of the holding and chucking means, since the holding means and the coating means are separated, and after chucking occurs, the holding means and chucking means would have to be separated, so that the chucking means can process to the separated coating means. Moreover, it would be suggested to release the substrate such that the coated surface of the substrate faces downward because Mendiola further teaches that all the substrates are placed back in the cassette to invert to the upward position, indicating that this occurs after removal from the chuck. It further would have been obvious to modify Motomura in view of Motoda and Mendiola to provide that the substrate in the cassettes are provided in an inclined fashion as suggested by '843 in order to provide an easy loading and removal of the substrates to and from the cassette as Motomura in view of Motoda and Mendiola provides substrates to the holding means from a cassette and '843 provides that it is desired to provide that the substrates in the cassette are provided in an inclined fashion for easy loading and removal of substrates to and from the cassette. As a result of the substrates in the cassette being in inclined form, the holding means will turn (such as by turning or bending arms or pincers) by a predetermined angle based on the angle of the substrate in the cassette to remove the substrate held in an inclined state and then put it in the correct position for chucking. Therefore, to attach the substrate to the holding means, the holding means will turn by a predetermined angle to initially hold the substrate in an inclined state (so it can be removed from the cassette) as claimed and

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then will further turn to provide the substrate in the desired flat, downward facing direction so it can be transferred to the chucking means. Similarly, to detach the substrate from the holding means, the holding means takes the substrate from the chucking means in a flat, downwards facing direction, and will turn from the flat, downwards facing direction to the predetermined angle necessary to return the substrate to the cassette. Since turning must occur, it is clear that a turning means/mechanism must be provided. Moreover, the holding means will be capable of being separated from the chucking means, and thus the mechanism for turning does not have to influence the positional precision of the chucking means during coating. Finally, the holding means will turn to have the substrate individually in the predetermined angles (as in claims 22, 23, 26), because substrates are removed one-byone (that is, individually) from the cassette.

6. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura in view of Motoda, Mendiola and '843 as applied to claims 9-13, 15-17 and 22-26 above, and further in view of the admitted state of the prior art.

Motomura in view of Motoda, Mendiola and '843 teach all the features of these claims except the size of the substrate.

However, the admitted state of the prior art, at pages 1-2 of the specification, teaches that it is known to use capillary coating to coat large sized substrates, described as having at least one side with a length of 300 mm or more.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura in view of Motoda, Mendiola and '843 to use a substrate having at least one side with a length of 300 mm or more as suggested by the admitted state of the prior art so as to provide a desirable coating because Motomura in view of Motoda, Mendiola and '843 teaches a capillary coating process, and the admitted state of the prior art teaches that it is well known to use large size substrates, with an least one side having a length of 300 mm or more when performing capillary coating.

7. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura in view of Motoda, Mendiola and '843 as applied to claims 9-13, 15-17 and 22-26 above, and further in view of Ichinose et al (US 4960485).

Motomura in view of Motoda, Mendiola and '843 teach all the features of these claims except the shock absorber means.

However, Ichinose teaches that when performing treatment of wafers, including moving the wafers, it is well known to provide shock absorber means on the treatment devices. See column 6, lines 40-68 and column 7, line 65 through column 8, line 25.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura in view of Motoda, Mendiola and '843 to use shock absorbing means on the holder and other carrying devices as suggested by Ichinose so as to provide a desirable coating because Motomura in view of Motoda,

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Mendiola and '843 teaches a capillary coating process with wafer carrying, and Ichinose teaches that it is well known to provide shock absorbing means on wafer carrying devices.

8. Claims 9-13, 15-17 and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura (US 2003/0064159) in view of Motoda et al (US 6010570), Mendiola et al (US 6254682), Japan 09-241843 (hereinafter '843) and Japan 2002-289673 (hereinafter '673).

Claims 9, 17 and 24: Motomura teaches a coating method and apparatus for forming a coating film on a surface of a substrate. Figure 1 and paragraph [0002]. Coating liquid is raised by a capillary phenomenon in a nozzle and brought into contact with the surface. Paragraphs [0087] — [0097]. The coating liquid is coated on the surface by the relative movement (provided by a moving means) of the nozzle and substrate. Paragraph [0097]. The substrate is attached to a chucking means such that the surface to be coated is facing downwards and the chucking means is attached to the backside of the substrate. Paragraphs [0056] and [0087] (absorption board 19). The coating film is formed on the surface to be coated by moving at least one of the nozzle and the chucking means in a horizontal direction. Paragraph [0097].

Claim 10: after forming the substrate is released from the chucking means onto a holder. Figure 12 and paragraph [0102].

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Claim 11: the chucking is carried out be vacuum means. Paragraphs [0056] — [0062] and [0087].

Claim 12: during the forming of the coating film on the surface, a distance between the nozzle and the surface is controlled so that the film thickness is uniform. Paragraph [0095].

Claim 13: before the forming the nozzle is lifted so that the coating liquid is brought into contact with the surface, and the nozzle is descended an amount to determine a coating thickness. Paragraph [0096].

Claim 15, 17, 25: the coating film is a photoresist. Paragraph [0080].

Claim 16, 17: the substrate comprises a photo mask blank. Paragraph [0088].

Motomura teaches all the features of these claims except for (1) the attachment of the chucking means to the substrate using the holding means as claimed, (2) the release of the substrate such that the coated surface of the substrate faces downward (claim 10), and (3) the holding means with the predetermined angle for receiving the substrate in an inclined state, the holding means separation from the substrate and turning means for the holding means as claimed.

However, Motoda teaches a coating method of forming a coating film on a surface of a substrate. Figures 3-4 and column 4, lines 1-20. Coating liquid is raised through a slit nozzle and brought into contact with the surface. Figures 3-4 and column 4, line 35 through column 5, lines 30. The coating liquid is coated on the surface by the relative movement of the nozzle and substrate. Figures 3-4 and column 6, line 55

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through column 7, line 5. The substrate is attached to a chucking means such that the surface to be coated is facing downwards and the chucking means is attached to the backside of the substrate. Figures 3-4 and column 4, line 5-25 (chuck plate 10). The coating film is formed on the surface to be coated by moving at least one of the nozzle and the chucking means in a horizontal direction. Figures 3-4 and column 6, line 55 through column 7, line 5. The chucking is carried out by vacuum means. Column 4, lines 20-25. During the forming of the coating film on the surface, a distance between the nozzle and the surface is controlled so that the film thickness is uniform. Column 5, lines 1-10. The coating film can be a photoresist. Column 1, lines 5-10. Motoda teaches to perform the coating as part of an apparatus with a loader section, preliminary processing sections and a resist coating/developing section for the coating process with the slit nozzle. Column 9, line 60 through column 10, line 40 (all part of the "first processing section" see resist coating device 107). The loader section includes cassettes housing untreated substrates and transfer pincers that take the untreated substrates out of the cassettes to transfer into the first processing section and pincers that take treated substrates and transfer into cassettes for holding treated substrates. Column 10, lines 10-25. A main arm is also provided to transfer the substrates between adjacent member devices. Column 10, lines 20-35.

Mendiola teaches treating plate like material that is carried in cassettes for treatment. Column 3, lines 35-45. Mendiola teaches that this device allows inversion of plate like materials in bulk, for treatments like meniscus coating techniques that require

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the substrate to be inverted. Column 3, line 60 through column 4, line 5. For example, the plate like material in can be inverted, and then the substrate removed from the cassette and the first surface processed from beneath the plate like material using a meniscus coating applicator or any other bottom surface treatment technique, and then the plate like material is returned to the cassette. Column 7, line 65 through column 8, line 20. Then the cassette inverter apparatus is rotated 180 degrees and the cassette is returned to its original position. Column 7, lines 10-20.

'843 provides that it is known to carry wafer substrates for treatment in grooves of cassette type holders (holding boats). Abstract and figure 1. Furthermore, it is known to provide the grooves in an inclined state so that the wafers are correspondingly inclined for easy placement and removal of wafers. Abstract and figure 1.

'673 teaches that it is well known to provide holding means with arms to remove or place a wafer in a cassette type holder. Abstract and figure 1. Furthermore, it is known to provide turning means so that the holding means inclines at an angle to correspond to the angle of a wafer in a cassette holder so that the inclined wafer can be desirably removed and carried in. See figures 1, 5-8, the abstract and paragraphs [0035] – [0038] and [0041]. Then the wafer is carried to the desired location where it is placed in a flat direction. See Figure 9 and paragraphs [0003] – [0004] and [0012].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura to provide the attachment of the substrate

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using a holding means as claimed as suggested by Motoda and Mendiola in order to provide a desirable and efficient coating method, because Motomura teaches a method of coating using a vacuum chuck to hold plate like materials with the coating face facing downwards so that the substrate can be coated with a capillary coating method, and Motoda teaches that when coating with a substrate held by a vacuum chuck to allow coating of the downward facing surface it is desirable to store the substrates in cassettes and then remove them with a holding device (such as arms, pincers) and transfer them to the coating sections and Mendiola teaches that when coating with a substrate held so as to allow downward facing of the substrate, it is desirable to have the substrates placed in bulk in a cassette and inverted to the correct downwards facing position before transfer to the coating device. This would provide that the substrate would be provided from a cassette to a holding means in the desired downwards facing direction and the holding means and the chucking means would necessarily be brought towards each other by moving at least one of the holding and chucking means, since the holding means and the coating means are separated, and after chucking occurs, the holding means and chucking means would have to be separated, so that the chucking means can process to the separated coating means. Moreover, it would be suggested to release the substrate such that the coated surface of the substrate faces downward because Mendiola further teaches that all the substrates are placed back in the cassette to invert to the upward position, indicating that this occurs after removal from the chuck. It further would have been obvious to modify Motomura in view of Motoda and

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Mendiola to provide that the substrate in the cassettes are provided in an inclined fashion as suggested by '843 in order to provide an easy loading and removal of the substrates to and from the cassette as Motomura in view of Motoda and Mendiola provides substrates to the holding means from a cassette and '843 provides that it is desired to provide that the substrates in the cassette are provided in an inclined fashion for easy loading and removal of substrates to and from the cassette. Furthermore, it further would have been obvious to modify Motomura in view of Motoda, Mendiola and '843 to provide that the holding means will turn (by turning or bending arms) by a predetermined angle based on the angle of the substrate in the cassette to remove the substrate held in an inclined state and then put it in the correct position for chucking as suggested by '673 in order to provide a desirable movement of the provided substrates, because Motomura in view of Motoda, Mendiola and '843 provide the transfer of substrates inclined in a cassette to a coating area to be worked on, and '673 provides that it is well known to provide holding means to carry substrates in and out of wafer cassettes to a location to be worked on, where the holding means have turning means to that are inclined incline them to attach and detach substrates. Therefore, to attach the substrate to the holding means, the holding means will turn by a predetermined angle to initially hold the substrate in an inclined state (so it can be removed from the cassette) as claimed and then will further turn to provide the substrate in the desired flat, downward facing direction so it can be transferred to the chucking means. Similarly, to detach the substrate from the holding means, the holding means takes the substrate from the

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chucking means in a flat, downwards facing direction, and will turn from the flat, downwards facing direction to the predetermined angle necessary to return the substrate to the cassette. Moreover, the holding means will be capable of being separated from the chucking means, and thus the mechanism for turning does not have to influence the positional precision of the chucking means during coating. Finally, the holding means will turn to have the substrate individually in the predetermined angles (as in claims 22, 23, 26), because substrates are removed one-by-one (that is, individually) from the cassette.

9. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura in view of Motoda, Mendiola, '843 and '673 as applied to claims 9-13, 15-17 and 22-26 above, and further in view of the admitted state of the prior art.

Motomura in view of Motoda, Mendiola, '843 and '673 teach all the features of these claims except the size of the substrate.

However, the admitted state of the prior art, at pages 1-2 of the specification, teaches that it is known to use capillary coating to coat large sized substrates, described as having at least one side with a length of 300 mm or more.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura in view of Motoda, Mendiola, '843 and '673 to use a substrate having at least one side with a length of 300 mm or more as suggested by the admitted state of the prior art so as to provide a desirable coating because

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Motomura in view of Motoda, Mendiola, '843 and '673 teaches a capillary coating process, and the admitted state of the prior art teaches that it is well known to use large size substrates, with an least one side having a length of 300 mm or more when performing capillary coating.

10. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motomura in view of Motoda, Mendiola, '843 and '673 as applied to claims 9-13, 15-17 and 22-26 above, and further in view of Ichinose et al (US 4960485).

Motomura in view of Motoda, Mendiola, '843 and '673 teach all the features of these claims except the shock absorber means.

However, Ichinose teaches that when performing treatment of wafers, including moving the wafers, it is well known to provide shock absorber means on the treatment devices. See column 6, lines 40-68 and column 7, line 65 through column 8, line 25.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Motomura in view of Motoda, Mendiola, '843 and '673 to use shock absorbing means on the holder and other carrying devices as suggested by Ichinose so as to provide a desirable coating because Motomura in view of Motoda, Mendiola, '843 and '673 teaches a capillary coating process with wafer carrying, and Ichinose teaches that it is well known to provide shock absorbing means on wafer carrying devices.

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Response to Arguments

11. Applicant's arguments filed March 12, 2007 have been fully considered but they are not persuasive.

Applicant argues that the cited reference do not teach or suggest all the features set forth in the claims, stating that independent claims 9 and 17 individually set forth a coating method that is carried out with a coating apparatus comprising:

holding means for holding the substrate so that the surface to be coated by the coating liquid faces downward; said holding means having a

chucking means for receiving the substrate from the holding means by chucking the substrate in a state that the surface of the substrate to be coated faces downward,

wherein said holding means is capable of being separated from said chucking means in order that a turning means not influence the positional precision of the chucking means during coating, and that none of the references, either individually or in combination disclose the above noted features.

The Examiner has reviewed these arguments, however, the rejection is maintained. First, the Examiner notes that, applicant actually appears to be referring to the wording of claim 24, although claims 9 and 17 use similar language. Furthermore, applicant does not provide any indication as to why the references do not provide these features, merely listing features of the claim. As such, applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art

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rejection above.

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disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections. The Examiner, in the rejection above, as provided a complete discussion of why the cited references to Motomura in view of Motoda, Mendiola and '843; or alternatively, the cited references to Motomura in view of Motoda, Mendiola, '843 and '673 provide all the features required by these claims as now worded, and that position is maintained for the reasoning given in the

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine A. Bareford whose telephone number is (571) 272-1413. The examiner can normally be reached on M-F(6:00-3:30) with the First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and for After Final communications.

Other inquiries can be directed to the Tech Center 1700 telephone number at (571) 272-1700.

Furthermore, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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